

(19) World Intellectual Property
Organization
International Bureau



(43) International Publication Date
14 April 2005 (14.04.2005)

PCT

(10) International Publication Number
WO 2005/033631 A1

(51) International Patent Classification⁷: **G01C 23/00, G08G 5/02**

(21) International Application Number:
PCT/CH2004/000609

(22) International Filing Date: 1 October 2004 (01.10.2004)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
1683/03 3 October 2003 (03.10.2003) CH

(71) Applicant and

(72) Inventor: **TSCHANNEN, Kurt** [CH/CH]; Schaffhauser-
strasse 466, CH-8052 Zürich (CH).

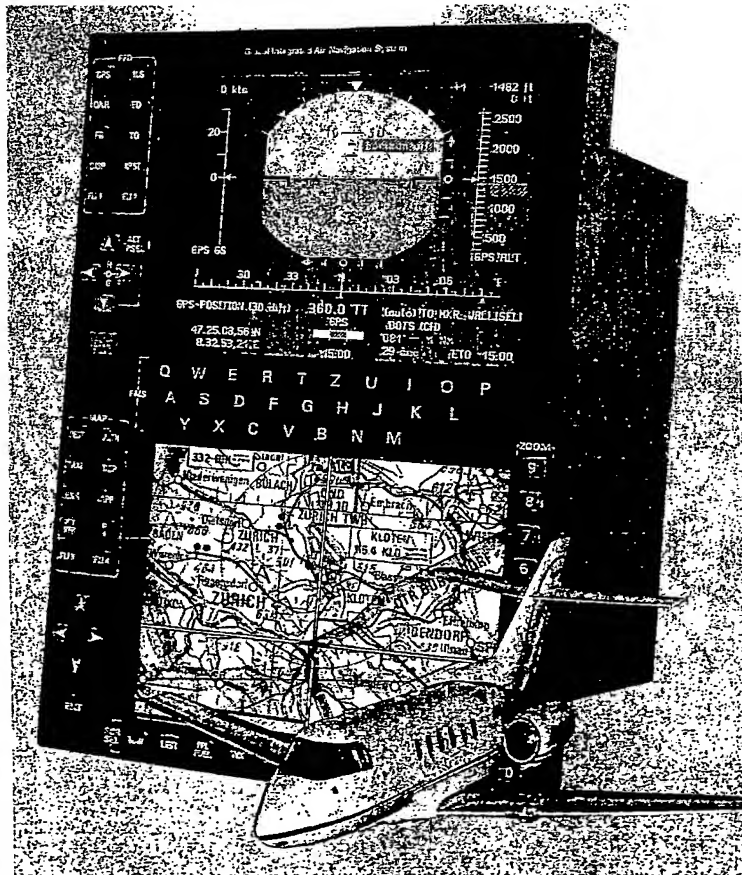
(74) Agent: **PATENTANWÄLTE FELDMANN & PART-
NER AG**; Europastrasse 17, CH-8152 Glatthbrugg (CH).

(81) Designated States (unless otherwise indicated, for every
kind of national protection available): AE, AG, AL, AM,
AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN,
CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI,
GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE,
KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD,
MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG,
PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM,
TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM,
ZW.

(84) Designated States (unless otherwise indicated, for every
kind of regional protection available): ARIPO (BW, GH,
GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM,
ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM),
European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI,
FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI,
SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ,
GW, ML, MR, NE, SN, TD, TG).

[Continued on next page]

(54) Title: **INTEGRATED AIR NAVIGATION AND FLIGHT CONTROL SYSTEM**



(57) Abstract: A new method and a device is sug-
gested. It contributes to solve air traffic conges-
tions, improve safety, and reduce faults to simplify
cockpit equipment. The method serves for the nav-
igation of airplanes from port to port with the help
of GPS signals. The navigation supported is car-
ried out based on digital maps and position control
by means of GPS signals, which GPS signals are
corrected by means of GPS reference signals
wherein depending on the present position and state
of motion of the airplane the map is respectively the
movement is selected automatically from a library
and shown on a screen.

WO 2005/033631 A1



Published:

- with international search report
- before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.